

Columbia River System Operation Environmental Impact Statement (EIS)

Webinar-April 17, 2017

Phone Bridge: 1-650-479-3208

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Outline

- Background
- Progress to Date
- Schedule & Scope
 - FY17
 - FY18
 - FY19
 - FY20
 - FY21

- Cost Estimate
 - Corps
 - BPA
 - Reclamation
- Questions









Background

Judge Simon's Order from NWF et. al. vs NMFS, et. al

• July 2016

Court Ordered New Biological Opinions

- December 2018 Based on invalidated FCRPS NMFS 2014 BiOp
- Potentially, NEW BiOp concurrent with conclusion of a NEPA process in 2021

Court Ordered New Columbia River System Operations EIS

- Complete scoping on or before September 30, 2017
- File a status report with the Court on or before October 30, 2017
- Attend the status conference on November 28, 2017
- NOAA Fisheries complete ESA Section 7 consultation on or before December 31, 2018
- Complete draft EIS on or before March 27, 2020
- Complete final EIS on or before March 26, 2021
- Issue Records of Decision on or before September 24, 2021









Progress to Date

- Started September 30, 2016 with Notice of Intent published in Federal Register. Ended February 7, 2017.
- Included 18 Public scoping meetings
 - Disclosed information on how the current system operates and the resources involved.
 - 16 in-person meetings and 2 webinars
- Received approximately 394,000 scoping letters.
- Cooperating Agency Outreach Is Ongoing
- Teams working with 24+ cooperating agencies and using scoping input to build project objectives, alternatives, and metrics.









Summary of Costs

Agency	FY-17		FY-18		FY-19		FY-20		FY-21		Total \$	
CORPS (Expense Cost)												
O&M (BPA direct, 90% power share)	\$	3.60	\$	6.12	\$	3.82	\$	2.05	\$	0.61	\$	16.20
O&M (COE 10% non-power share)	\$	0.40	\$	0.68	\$	0.42	\$	0.23	\$	0.07	\$	1.80
O&M Total	\$	4.00	\$	6.80	\$	4.24	\$	2.28	\$	0.68	\$	18.00
CORPS (CRFM Capital Cost)												
CRFM (COE app, 83% power share)	\$	4.98	\$	8.47	\$	5.28	\$	2.84	\$	0.85	\$	22.42
CRFM (COE app, 17% non-power)	\$	1.02	\$	1.73	\$	1.08	\$	0.58	\$	0.17	\$	4.58
CRFM Total (Note 1)	\$	6.00	\$	10.20	\$	6.36	\$	3.42	\$	1.02	\$	27.00
CORPS TOTAL	\$	10.00	\$	17.00	\$	10.60	\$	5.70	\$	1.70	\$	45.00
BOR												
O&M (BPA direct power share)	\$	1.17	\$	1.43	\$	1.52	\$	1.13	\$	0.45	\$	5.70
O&M (BOR app non-power share)	\$	0.17	\$	0.20	\$	0.22	\$	0.16	\$	0.06	\$	0.80
BOR TOTAL	\$	1.34	\$	1.63	\$	1.74	\$	1.28	\$	0.51	\$	6.50
BPA												
Contract & Modeling	\$	0.69	\$	1.45	\$	1.60	\$	1.40	\$	1.40	\$	6.54
Labor (internalized)	\$	3.18	\$	3.25	\$	3.40	\$	3.60	\$	3.60	\$	17.03
BPA TOTAL	\$	3.87	\$	4.70	\$	5.00	\$	5.00	\$	5.00	\$	23.57
Additional Estimated Contract Costs	\$	1.20	\$	1.20	\$	1.20	\$	1.20	\$	1.20	\$	6.00
Total Estimate Annual Expenditures	\$	16.41	\$	24.53	\$	18.54	\$	13.18	\$	8.41	\$	81.07

Note 1: BPA capitalizes CRFM and collects these CRFM costs in rates over a 75 year period. The \$22.4 million, plus interest, will be collected in rates in the form of annual amortization and interest costs. These CRFM costs are planned to be put into service after the record of decision (2021).









- FY17
 - Prepare Scoping Summary
 - Develop and Calibrate Models
 - Preparation for Building Alternatives
 - Incorporates public scoping comments
 - Includes workshops with action and cooperating agencies
 - Describe Existing Condition and No Action Alternative
 - Using best available scientific data
 - Includes data gathered and developed by the Columbia River Treaty Review effort









- FY18
 - Alternative Impact Assessment
 - Using latest scientific methodologies and models
 - Incorporates modeling developed in the Columbia River Treaty Review
 - Multi-disciplinary team writing the sections of the DFIS
 - Compliance coordination with agencies for federal and state laws
 - Independent External Peer Review









- FY19
 - Complete Alternative Impact Assessment
 - Publish Draft EIS by March 2020
 - Includes technical, legal, and policy review
 - Compiles work product developed by all action agencies









- FY20
 - Draft EIS Public Review Comment Period
 - Prepare Final EIS by March 2021
 - Requires response to public comments
 - Includes completion of all statutory and regulatory requirements, including Endangered Species Act consultation, Section 106, etc.
- FY21
 - Public/State/Agency Review of Final EIS
 - Complete Final EIS
 - Publish Record of Decision









- Risk And Uncertainty
 - Existing cost estimates are generated from the current scope of work
 - On-going litigation poses the most risk and uncertainty
 - Can affect baseline/existing conditions
 - May result in additional alternatives









Cost Estimate

- Corps
 - \$45M Total EIS Cost *60% CRFM funds (FCRPS projects on Columbia and lower Snake River) 40%
 O&M (combination of appropriated O&M and BPA funding) for Chief Joseph, Libby, Albeni Falls and Dworshak dams.
 - Costs Due To Impact Assessment Of 12 Corps Owned Projects

*Source: Corps of Engineers February 2017 PMP

Agency	FY-17		FY18		FY-19		FY-20		FY-21		otal \$
CORPS (Expense Cost)											
O&M (BPA direct, 90% power	\$	3.60	\$ 6.12	\$	3.82	\$	2.05	\$	0.61	\$	16.20
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O&M Total	\$	4.00	\$ 6.80	\$	4.24	\$	2.28	\$	0.68	\$	18.00
CORPS (CRFM Capital Cost)											
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CRFM (Corps app, 17% non-	\$	1.02	\$ 1.73	\$	1.08	\$	0.58	\$	0.17	\$	4.58
CRFM Total (Note 1)	\$	6.00	\$ 10.20	\$	6.36	\$	3.42	\$	1.02	\$	27.00
CORPS TOTAL	\$	10.00	\$ 17.00	\$	10.60	\$	5.70	\$	1.70	\$	45.00









Cost Estimate

- Corps*
 - Scoping (attend public meetings, analyze comments) \$650K
 - Alternatives Development \$1.2M
 - Describe Existing Condition and No Action Alternative \$7.1M
 - Alternative Impact Assessment \$20.7M
 - Publish Draft EIS \$6.9M
 - Prepare Final EIS \$6.7M
 - Prepare/Publish Record of Decision \$1.7M

*Source: February 2017 PMP









- BPA
 - \$23.6M Total EIS Cost-including in house staff salaries and contracting and modeling.

Agency		FY-17		FY18		FY-19		FY-20		FY-21		T	otal \$
BPA													
Contract & Modeling		\$	0.69	\$	1.45	\$	1.60	\$	1.40	\$	1.40	\$	6.54
Labor (internalized)		\$	3.18	\$	3.25	\$	3.40	\$	3.60	\$	3.60	\$	17.03
	BPA TOTAL	\$	3.87	\$	4.70	\$	5.00	\$	5.00	\$	5.00	\$	23.57









- BPA
 - Scoping \$1.1M
 - Alternatives Development \$1.0M
 - Describe Existing Condition and No Action Alternative \$2.8M
 - Alternative Impact Assessment \$6.7M
 - Publish Draft EIS \$5.7M
 - Prepare Final EIS \$5.1M
 - Prepare/Publish Record of Decision \$1.1M









Cost Estimate

- Reclamation
 - \$6.5M Total EIS Cost*
 - Includes Reclamation appropriated funds plus \$5.7M power share reimbursement from BPA
 - Costs due to impact assessment of 2 Reclamation owned and operated projects – Grand Coulee and Hungry Horse Dams.

BOR						
O&M (BPA direct power share)	\$ 1.17	\$ 1.43	\$ 1.52	\$ 1.13	\$ 0.45	\$ 5.70
O&M (BOR app non-power share)	\$ 0.17	\$ 0.20	\$ 0.22	\$ 0.16	\$ 0.06	\$ 0.80
BOR TOTAL	\$ 1.34	\$ 1.63	\$ 1.74	\$ 1.28	\$ 0.51	\$ 6.50

*Note: Cost Estimates (FY17-21) include appropriated dollars.









- Reclamation*
 - Scoping \$471K
 - Alternatives Development \$513K
 - Describe Existing Condition and No Action Alternative \$ 1M
 - Alternative Impact Assessment \$ 2M
 - Publish Draft EIS \$1M
 - Prepare Final EIS \$1M
 - Prepare/Publish Record of Decision \$510K

^{*}Note: Cost Estimates include appropriated dollars









Questions









Financial Disclosure

This information was made publicly available on April 17, 2017, and contains information not sourced directly from BPA financial statements.





